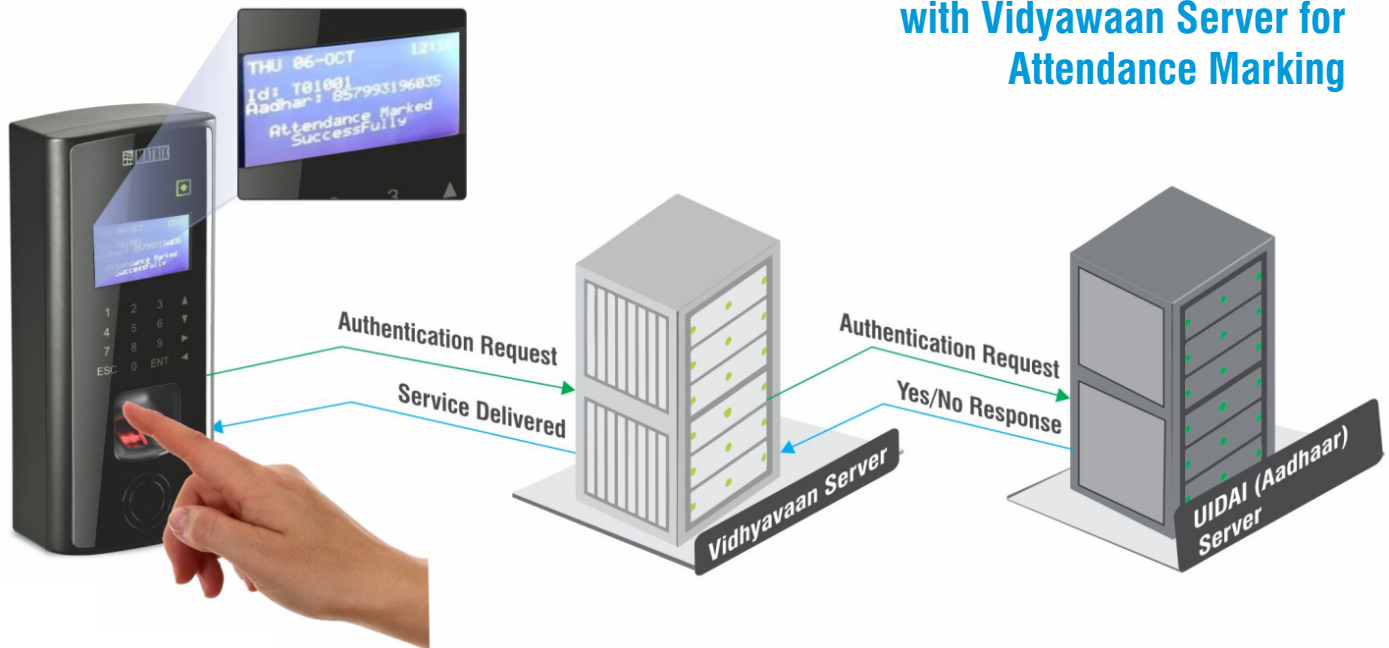# Matrix COSEC Device Integration with Vidyawaan Server for Attendance Marking

PROJECT HIGHLIGHTS

- **Application:** Biometric Time-Attendance Device Integration with Vidyawaan Server
- **Users:** 5,00,000+
- **Locations:** Andhra Pradesh
- **Devices:** 2,000+
- **Colleges:** 75+
- **Readers:** Fingerprint (with Optical STQC Sensor)
- **Industry:** Education

INTRODUCTION

As per the guidelines provided by the Andhra Pradesh Government every institute of Andhra Pradesh must have biometric time-attendance devices for attendance marking. Moreover, these devices should be integrated with the Vidyawaan Server deployed by the State Government. Under this rule, more than 200 institutes and 5,00,000 students are to be registered with the Vidyawaan Server.

BUSINESS CHALLENGES

As a part of the new rule by the Andhra Pradesh Government, all the institutes of Andhra Pradesh must have biometric time-attendance devices with STQC sensor for attendance marking. Furthermore, it should also communicate with the State Government server 'Vidyawaan' for marking time-attendance of students. The main challenge was to enroll students in to the Vidyawaan Server with their unique AADHAAR Card number. The prime requirement for this project was to authenticate each student's credential with the Vidyawaan Server and mark their presence/absence accordingly. They also wanted a solution, which does not require Aadhaar card ID every time for attendance marking.
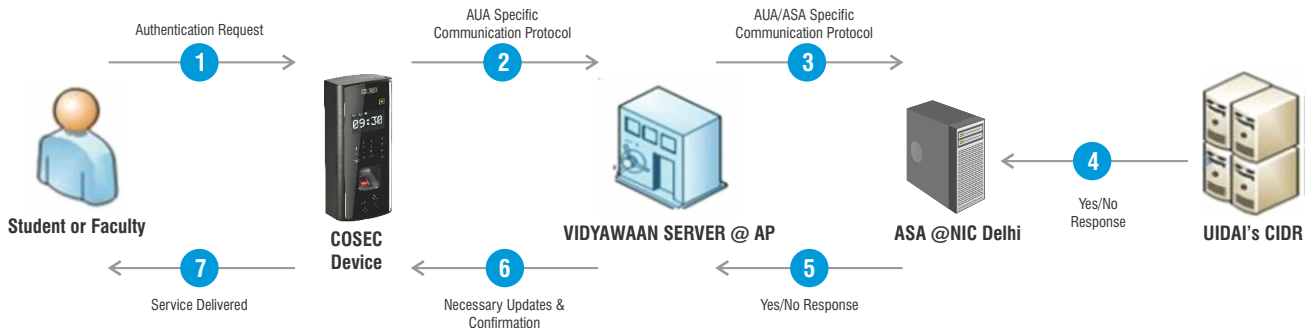
SOLUTION OFFERED

After having a word with the institute heads, Matrix offered a comprehensive solution, which served all the requirements for 75 Institutes of Andhra Pradesh. Matrix offered biometric fingerprint devices, which can be easily integrated with the Vidyawaan Server. Matrix provided high end fingerprint and card based devices (COSEC DOOR FOPQ and COSEC DOOR FOTQ) to communicate with the Vidyawaan Server.

For marking the attendance, first students must show their Mifare smart card. This will activate the fingerprint sensor and prompt students to place finger on sensor. It will capture the fingerprint and send it to the Vidyawaan Server for authentication. If the student is registered on the server only then it will validate it and pass the request to the NIC Delhi Server. Now, the NIC Delhi Server will authenticate the request coming from Vidyawaan to CIDR (Central Identities Data Repository). CIDR is a central server, which owns and manages the Personal Identity Data (PID) of all AADHAAR Card holders. After authentication, CIDR will response YES/NO to NIC Delhi Server and will pass to the Vidyawaan Server. Attendance of the students will be marked present after CIDR authentication.
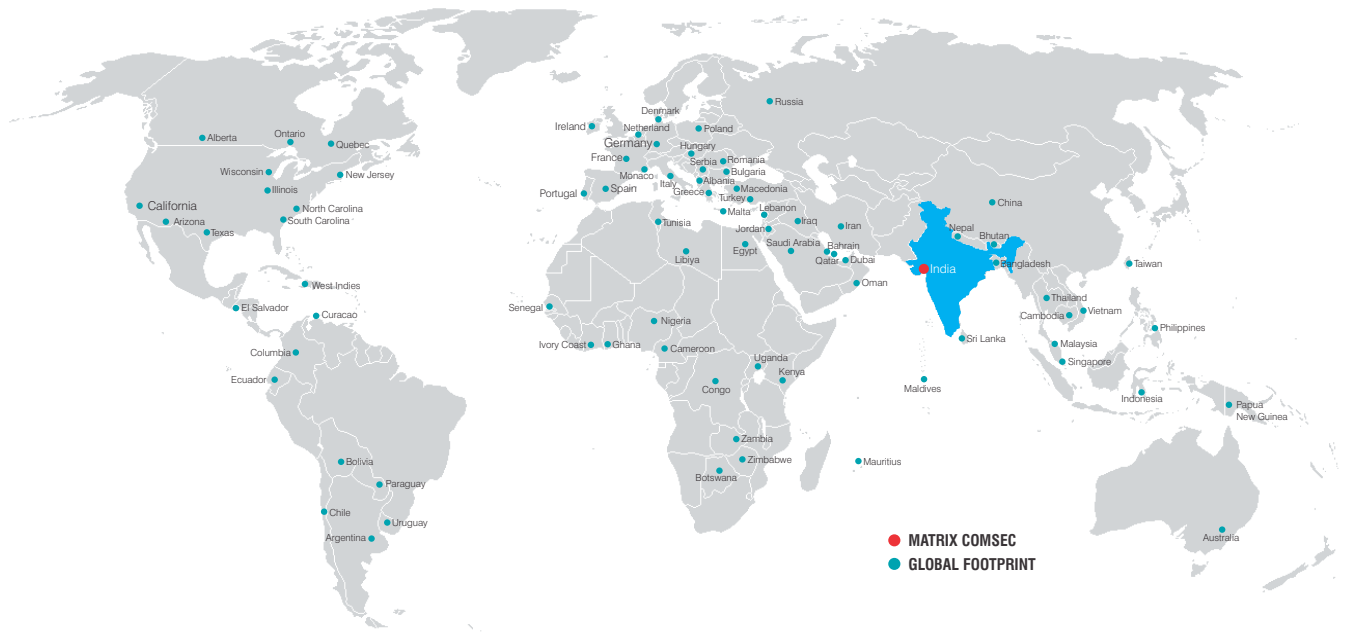
SOLUTION DIAGRAM

RESULTS

• Accurate Attendance Marking of Students through Integration with Vidyawaan Server
• Eliminated Fraudulent Time Keeping

PRODUCTS OFFERED

• COSEC DOOR FOPQ - Optical Fingerprint and Card Based Time-Attendance Terminal
• COSEC DOOR FOTQ - Optical Fingerprint and Card Based Time-Attendance Terminal
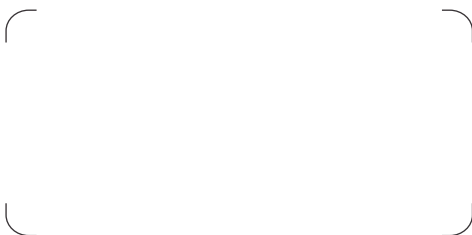• COSEC CPM MIFARE SMART - Card Personality Module

MATRIX NETWORK

Alberta · Ontario · Quebec · Wisconsin · New Jersey · Illinois · California · North Carolina · Arizona · South Carolina · Texas · West Indies · El Salvador · Curacao · Columbia · Ecuador · Bolivia · Paraguay · Chile · Uruguay · Argentina

Ireland · Denmark · Poland · Russia · Netherland · Germany · Hungary · France · Serbia · Romania · Monaco · Bulgaria · Portugal · Spain · Italy · Albania · Macedonia · Greece · Turkey · Malta · Lebanon · China · Tunisia · Jordan · Iraq · Iran · Nepal · Bhutan · Libiya · Saudi Arabia · Bahrain · India · Bangladesh · Egypt · Qatar · Dubai · Taiwan · Oman · Senegal · Thailand · Ivory Coast · Ghana · Nigeria · Cameroon · Cambodia · Vietnam · Uganda · Malaysia · Philippines · Kenya · Singapore · Congo · Sri Lanka · Maldives · Indonesia · Papua New Guinea · Zambia · Zimbabwe · Botswana · Mauritius · Australia

● MATRIX COMSEC
● GLOBAL FOOTPRINT

ABOUT MATRIX

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization, Matrix is committed to keep pace with the revolutions in the telecom and security industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control, Time-Attendance and Video Surveillance solutions. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many international awards for its innovative products

For further information, please contact:

MATRIX
SECURITY SOLUTIONS

MATRIX COMSEC

Head Office
394-GIDC, Makarpura, Vadodara-390 010, India.
Ph: +91 265 2630555, Fax: +91 265 2636598
E-mail: Inquiry@MatrixComSec.com
SMS 'MATRIX' to +91 99987 55555

Manufacturing Unit
19-GIDC, Waghodia, Dist. Vadodara-391 760, India.
Ph: +91 2668 263172/73

www.MatrixSecuSol.com

Due to continuous technology upgradations, product specifications are subject to change without notice.